

## AMENDMENTS

### IN THE SPECIFICATION:

Please amend the specification as follows:

On page 3, line 25, change the first word "or" to --of--.

On page 4, line 31, change the first word "or" to --to--.

On page 9, line 16, after "MKK1" please insert --(Seq ID No. 2)--.

On page 9, line 18, after "MKK2" please insert --(Seq ID No. 4)--.

On page 9, line 20, after "MKK3" please insert --(Seq ID No. 6)--.

### IN THE CLAIMS:

Please amend the claims as follows:

Cancel Claims 14-22, without prejudice, and substitute the following new claims:

-- 31. (new) An isolated protein containing the amino acid sequence shown in SEQ ID NO:2.

32. (new) An isolated protein containing at least one of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:2: a Src homology 2 peptide domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

33. (new) The isolated protein of Claim 32 containing at least one amino acid sequence selected from the group consisting of: amino acid residues 122 to 196; amino acid residues 48 to 111; and amino acid residues 233 to 478, as depicted in SEQ ID NO:2.

34. (new) An isolated protein containing the amino acid residues 49 to 111 depicted in SEQ ID NO:2.

35. (new) The isolated protein of Claims 31, 32 or 34, wherein the protein is fused to a heterologous peptide.

36. (new) The isolated protein of Claim 35, wherein the heterologous peptide is a glutathione-S-transferase.

37. (new) An isolated protein containing the amino acid sequence:  
Gly Gln Asp Ala Asp Gly Ser Thr Ser Pro Arg Ser Gln Glu Pro.

*B1*  
*Amtd*  
38. (new) An isolated protein having the amino acid sequence shown in SEQ ID NO:2 and lacking at least one but no more than two of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:2: a Src homology 2 domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

39. (new) The isolated protein of Claim 38, wherein the protein lacks at least one but no more than two of the following amino acid sequences shown in SEQ ID NO:2: amino acid residues 122 to 196; amino acid residues 48 to 111; and amino acid residues 233 to 478.

40. (new) An isolated protein which is encoded by a naturally occurring nucleic acid molecule which hybridizes under highly stringent conditions to the nucleic acid sequence which encodes the polypeptide of SEQ ID NO:2.

Sub  
C3

41. (new) An isolated protein containing the amino acid sequence shown in SEQ ID NO:4.

42. (new) An isolated protein containing at least one of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:4: a Pleckstrin Homology peptide domain; a Src homology 2 peptide domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

43. (new) The isolated protein of Claim 42 containing at least one amino acid sequence selected from the group consisting of: amino acid residues 25 to 169; amino acid residues 296 to 375; amino acid residues 192 to 234; and amino acid residues 424 to 659, as depicted in SEQ ID NO:4.

44. (new) The isolated protein of Claims 41 or 42, wherein the protein is fused to a heterologous peptide.

45. (new) An isolated protein containing the amino acid sequence:  
Gln Gln Leu Leu Ser Ser Ile Glu Pro Leu Arg Glu Lys Asp Lys His.

46. (new) An isolated protein having the amino acid sequence shown in SEQ ID NO:4 and lacking at least one but no more than two of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:4: a Pleckstrin Homology domain; a Src homology 2 domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

47. (new) The isolated protein of Claim 46, wherein the protein lacks at least one but no more than two of the following amino acid sequences shown in SEQ ID NO:4: amino acid residues 25 to 169; amino acid residues 296 to 375; amino acid residues 192 to 234; and amino acid residues 424 to 659.

Sub D3 48. (new) An isolated protein which is encoded by a naturally occurring nucleic acid molecule which hybridizes under highly stringent conditions to the nucleic acid sequence which encodes the polypeptide of SEQ ID NO:4.

Sub D6 49. (new) An isolated protein containing the amino acid sequence shown in SEQ ID NO:6.

Sub D7 50. (new) An isolated protein containing at least one of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:6: a Src homology 2 peptide domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

Sub C4 51. (new) The isolated protein of Claim 50 containing at least one amino acid sequence selected from the group consisting of: amino acid residues 122 to 201; amino acid residues 54 to 112; and amino acid residues 247 to 486, as depicted in SEQ ID NO:6.

52. (new) The isolated protein of Claims 49 or 50, wherein the protein is fused to a heterologous peptide.

53. (new) An isolated protein having the amino acid sequence shown in SEQ ID NO:2 and lacking at least one but no more than two of the following peptide domains contained within the amino acid sequence depicted in SEQ ID NO:6: a Src homology 2 domain; a Src homology 3 peptide domain; and a Tyrosine kinase peptide domain.

54. (new) The isolated protein of Claim 53, wherein the protein lacks at least one but no more than two of the following amino acid sequences shown in SEQ ID NO:6: amino acid residues 122 to 201; amino acid residues 54 to 112; and amino acid residues 247 to 486.

55. (new) An isolated protein which is encoded by a naturally occurring nucleic acid molecule which hybridizes under highly stringent conditions to the nucleic acid sequence which encodes the polypeptide of SEQ ID NO:6. --